

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#5

Applicants: Joseph SCHLESSINGER et al.  
 Title: CRYSTAL STRUCTURES OF DOMAINS OF  
 RECEPTOR PROTEIN TYROSINE KINASES AND  
 THEIR LIGANDS  
 Appl. No.: 10/049,429  
 Filing Date: 10/16/02  
 Examiner: Unassigned  
 Art Unit: Unassigned

**RESPONSE TO NOTICE TO COMPLY WITH REQUIREMENTS  
 FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO  
 ACID SEQUENCE DISCLOSURES**

Commissioner for Patents  
 Washington, D.C. 20231

Sir:

In response to the Notification of Missing Requirements mailed on April 4, 2002, enclosed are copies of the Sequence Listing and Statement to Support Filing and Submission in accordance with 37 C.F.R. §§ 1.821-1.825. Also enclosed is a diskette containing the Sequence Listing in computer readable form and an amendment directing entry of the Sequence Listing into the application.

Applicants respectfully request examination of the instant application on the merits in due course.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date October 16, 2002

By *Beth A. Burrous*  
*Reg. No. 34,485*

FOLEY & LARDNER  
 Customer Number: 22428

Beth A. Burrous  
 Attorney for Applicants  
 Registration No. 35,087



22428

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UNITED STATES PATENT AND TRADEMARK OFFICE

 Commissioner for Patents, Box PCT  
 United States Patent and Trademark Office  
 Washington, D.C. 20231  
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/049,429	Joseph Schlessinger	038602-1306

INTERNATIONAL APPLICATION NO.
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PCT/US00/23744

 22428  
 FOLEY AND LARDNER  
 SUITE 500  
 3000 K STREET NW  
 WASHINGTON, DC 20007

I.A. FILING DATE	PRIORITY DATE
08/30/2000	08/30/1999

CONFIRMATION NO. 3634

371 FORMALITIES LETTER



\*OC00000007868434\*

Date Mailed: 04/16/2002

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated Office (37 CFR 1.494):

- U.S. Basic National Fees
- Priority Document
- Biochemical Sequence Listing
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$130 Surcharge for providing the oath or declaration later than the appropriate 20 months months from the priority date (37 CFR 1.492(e)) is required.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTH FROM THE DATE OF THIS NOTICE OR BY 22 or 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

The following items **MUST** be furnished within the period set forth below:

• The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):

- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).
- APPLICANT MUST PROVIDE:
  - An initial or substitute computer readable form (CRF) of the "Sequence Listing."
  - A statement that the contents of the paper or compact disc and the computer readable form are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825(d).

• For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or [patin3help@uspto.gov](mailto:patin3help@uspto.gov)

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$130** for a Large Entity:

- **\$130** Late oath or declaration Surcharge.
- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

BARBARA A CAMPBELL

Telephone: (703) 305-3631

#### PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/049,429	PCT/US00/23744	038602-1306

DT05 Rec'd PCT/PTO 16 OCT 2002

FORM PTO-1390 (Modified) (REV 5-93)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				038602-1306	
		U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 10/049,429			
INTERNATIONAL APPLICATION NO. PCT/US00/23744		INTERNATIONAL FILING DATE 08/30/2000		PRIORITY DATE CLAIMED 08/30/1999	
TITLE OF INVENTION CRYSTAL STRUCTURES OF DOMAINS OF RECEPTOR PROTEIN TYROSINE KINASES AND THEIR LIGANDS					
APPLICANT(S) FOR DO/EO/US Joseph SCHLESSINGER, Stevan B. HUBBARD; Moosa MOHAMMADI, Xiang-Peng KONG, Alexander PLOTNIKOV and Zhongtao ZHANG					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
1. <input type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). 4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19 <sup>th</sup> month from the earliest claimed priority date. 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). <input type="checkbox"/> has been transmitted by the International Bureau. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). <input type="checkbox"/> have been transmitted by the International Bureau. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) (8 pgs.). 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 11. <input type="checkbox"/> Applicant claims small entity status under 37 CFR 1.27 .					
Items 12. to 17. below concern other document(s) or information included:					
12. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 13. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. <input type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A change of power of attorney and/or address letter. 17. <input checked="" type="checkbox"/> Other items or information: Supplemental Application Data Sheet (5 pgs.); Petition for Extension of Time (1 pg.); Amendment in Response to Notice (10 pgs.); Sequence Listing (54 pgs.); Response to Notice to Comply with Requirements (1 pg.); Statement to Support Filing and Submission (2 pgs.); Computer Readable Format (CRF of Sequence Listing), and Return Copy of Notification of Missing Requirements (2 pgs.).					

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.50 10/049,429	INTERNATIONAL APPLICATION NO. PCT/US00/23744	ATTORNEY'S DOCKET NUMBER 038602-1306
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18. <input checked="" type="checkbox"/> The following fees are submitted:	CALCULATIONS	PTO USE ONLY
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Basic National Fee (37 CFR 1.492(a)(1)-(5): Search Report has been prepared by the EPO or JPO.....\$890.00	
International preliminary examination fee paid to USPTO (37 CFR 1.482) .....\$710.00	
No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) .....\$740.00	
Neither international preliminary examination fee (37 CFR 1.482) nor International search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$1,040.00	
International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) .....\$100.00	

ENTER APPROPRIATE BASIC FEE AMOUNT =	\$0.00	
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Surcharge of \$130.00 for furnishing the oath or declaration later than 20 Months from the earliest claimed priority date (37 CFR 1.492(e))	\$130.00	
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Claims	Number Filed		Included in Basic Fee		Extra Claims		Rate		
Total Claims	109	-	20	=	89	x	\$18.00	\$0.00	
Independent Claims	22	-	3	=	19	x	\$84.00	\$0.00	
Multiple dependent claim(s) (if applicable)							\$280.00	\$0.00	

TOTAL OF ABOVE CALCULATIONS =	\$0.00	
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Reduction by 1/2 for filing by small entity, if applicable.	\$0.00	
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SUBTOTAL =	\$130.00	
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Processing fee of \$130.00 for furnishing English translation later the 20 months from the earliest claimed priority date (37 CFR 1.492(f). +		
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TOTAL NATIONAL FEE =	\$130.00	
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		
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TOTAL FEES ENCLOSED =	\$130.00	
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10/13/2002 GFREY1 00000085 10049429		Amount to be: refunded \$
10/13/2002 130.00		charged \$

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a. <input checked="" type="checkbox"/> A check in the amount of \$130.00 to cover the above fees is enclosed.
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b. <input type="checkbox"/> Please charge my Deposit Account No. 19-0741 in the amount of \$0.00 to the above fees. A duplicate copy of this sheet is enclosed.
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c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-0741. A duplicate copy of this sheet is enclosed.
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NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.
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SEND ALL CORRESPONDENCE TO:
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Foley & Lardner	SIGNATURE
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Customer Number: 22428	Reg. No. 34,485
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	NAME BETH A. BURROUS
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22428	REGISTRATION NUMBER 35,087
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PATENT TRADEMARK OFFICE	
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